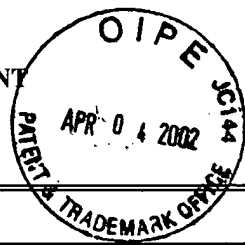


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Form PTO-1449 (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
 (Use several sheets if necessary)
Atty. Docket No.
1391-10210Serial No.
09/911,963Applicant
James B. Terry et alFiling Date
07/23/01Group
3673
REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
<i>h</i>	AA	2,822,158 ✓	02/04/58	<i>Brinton*</i>	262	3	
	AB	3,129,776 ✓	04/21/64	<i>Mann</i>	175	76	
	AC	3,354,969 ✓	11/28/67	<i>Ebeling</i>	175	81	
	AD	3,376,942 ✓	04/09/68	<i>Van Winkle</i>	175	81	
	AE	Re28,449 ✓	06/10/75	<i>Edmond</i>	175	94	
	AF	3,797,589 ✓	03/19/74	<i>Kellner et al</i>	175	94	
	AG	3,978,930 ✓	09/07/76	<i>Schroeder</i>	175	94	
	AH	4,060,141 ✓	11/29/77	<i>Catterfeld</i>	175	94	
	AI	4,185,704 ✓	01/29/80	<i>Nixon, Jr.</i>	175	76	
	AJ	4,388,974 ✓	06/21/83	<i>Jones, Jr. et al</i>	175	325	
	AK	4,463,814 ✓	08/07/84	<i>Horstmeyer et al.</i>	175	454	
	AL	4,560,934 ✓	12/24/85	<i>Dickinson, III *</i>	324	323	
	AM	4,568,145 ✓	02/04/86	<i>Colin et al.</i>	350	96.20	
	AN	4,619,323 ✓	10/28/86	<i>Gidley*</i>	166	285	
	AO	4,698,028 ✓	10/06/87	<i>Caro et al.</i>	439	271	
	AP	4,699,454 ✓	10/13/87	<i>Brubaker</i>	350	96.2	
	AQ	4,844,516 ✓	07/04/89	<i>Baker</i>	285	351	
	AR	5,018,583 ✓	05/28/91	<i>Williams</i>	166	385	
	AS	5,064,268 ✓	11/12/91	<i>Morency et al.</i>	385	87	
	AT	5,069,297 ✓	12/03/91	<i>Krueger, deceased et al.</i>	175	65	
	AU	5,080,175 ✓	01/14/92	<i>Williams</i>	166	385	
	AV	5,094,870 ✓	03/24/92	<i>Williams</i>	138	115	
	AW	5,109,921 ✓	05/05/92	<i>Aracena</i>	166	65	
	AX	5,146,982 ✓	09/15/92	<i>Dinkins</i>	366	65.1	
	AY	5,146,984 ✓	09/15/92	<i>Pleasants</i>	166	238	
	AZ	5,160,925 ✓	11/03/92	<i>Dailey et al.</i>	340	853.3	
	BA	5,172,765 ✓	12/22/92	<i>Sas-Jaworsky et al.</i>	166	384	
	BB	5,176,180 ✓	01/05/93	<i>Williams et al.</i>	138	172	
	BC	5,215,151 ✓	06/01/93	<i>Smith et al.</i>	175	45	
<i>h</i>	BD	5,233,522 ✓	08/03/93	<i>Sinclair</i>	364	422	

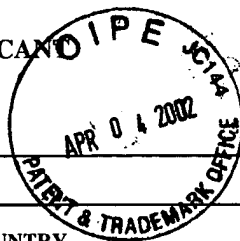
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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
2	BE	5,234,058 ✓	08/10/93	Sas-Jaworsky et al.	166	385	
	BF	5,235,285 ✓	08/10/93	Clark et al.	324	342	
	BG	5,260,662 ✓	11/09/93	Rorden	324	339	06/15/92
	BH	5,285,008 ✓	02/08/94	Sas-Jaworsky et al.	174	47	
	BI	5,285,204 ✓	02/08/94	Sas-Jaworsky	340	854.9	07/23/92
	BJ	5,311,952 ✓	05/17/94	Eddison et al.	175	61	05/22/92
	BK	5,314,032 ✓	05/24/94	Pringle et al.	175	74	05/17/93
	BL	5,318,138 ✓	06/07/94	Dewey et al.	175	74	10/23/92
	BM	5,330,807 ✓	07/19/94	Williams	428	34.5	03/15/90
	BN	5,332,049 ✓	07/26/94	Tew	175	320	09/28/91
	BO	5,332,048 ✓	07/26/94	Underwood et al.	175	26	10/23/92
	BP	5,339,036 ✓	08/16/94	Clark et al.	324	338	05/21/93
	BQ	5,348,096 ✓	09/20/94	Williams	166	384	04/29/93
	BR	5,394,951 ✓	03/07/95	Pringle et al.	175	61	12/13/93
	BS	5,423,389 ✓	06/13/95	Warren et al.	175	75	03/25/94
	BT	5,437,899 ✓	08/01/95	Quigley	428	35.7	07/14/92
	BU	5,442,294 ✓	08/15/95	Rorden	324	339	04/16/93
	BV	5,469,916 ✓	11/28/95	Sas-Jaworsky et al.	166	64	03/17/94
	BW	5,497,707 ✓	03/12/96	Box	104	138.2	06/30/94
	BX	5,527,220 ✓	06/18/96	Geczy	464	153	03/24/94
	BY	5,540,870 ✓	07/30/96	Quigley	264	103	04/07/95
	BZ	5,586,084 ✓	12/17/96	Barron et al.	367	85	12/20/94
	CA	5,601,025 ✓	02/11/97	Box	104	138.2	04/17/95
	CB	5,620,056 ✓	04/15/97	Eppink	175	95	06/07/95
	CC	5,662,020 ✓	09/02/97	Morita et al.	91	44	07/30/96
	CD	5,713,422 ✓	02/03/98	Dhindsa	175	27	02/28/94
2	CE	5,842,149 ✓	11/24/98	Harrell et al.	702	9	10/22/96

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07/23/01Group
3673**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation	
							YES	NO
7-	CF	GB2 295 875A	12.06.96	UK *	F16L	11/02	X	
	CG	WO 96/09416	28.03.96	PCT *	E21B	47/01	X	
	CH	WO 97/12115	03.04.97	PCT *	E21B	17/04	X	
	CI	9708418	06.03.97	WIPO			X	
	CJ	WO 97/12166	03.04.97	PCT *	F16L	11/08	X	
7-	CK	WO 99/19653	22.04.99	PCT *	F16L	11/12	X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

7-	CL	SPE Petroleum Conference (SPE 028871); <i>Well Tractors for Highly Deviated and Horizontal Wells</i> ; J. Hallundbaek; Oct. 25-27, 1994; (pp. 57-62)
	CM	68 th Annual Technical Conference of SPE (SPE 26536); <i>Development of Composite Coiled Tubing for Oilfield Services</i> ; A. Sas-Jaworsky, J.G. Williams; Oct. 3-6 1993 (pp. 1-15)
	CN	SPE/ADC Drilling Conference (SPE 37656); <i>Extending the Reach of Coiled Tubing Drilling (Thrusters, Equalizers, and Tractors)</i> ; J. Leising, E.C. Onyia, S.C. Townsend, et al March 4-6 1997; (pp. 1-14)
	CO	Introduction to Petroleum Production Volume 1 (ISBN 0-87201-767-2); <i>Reservoir Engineering, Drilling, Well Completions</i> ; D. R. Skinner; Gulf Publishing Company; (pp 1-69); Undated
	CP	International MWD Society; <i>State of the Art in MWD</i> ; (pp. 28) 01/19/93
	CQ	Oilfield Review; <i>Measurements at the Bit: A New Generation of MWD Tools</i> ; S. Bonner, T. Burgess, et al; (pp. 44-54) Undated
	CR	Schlumberger/Anadrill; <i>Anadrill Directional Drilling; People, Tools and Technology Put More Within Your Reach</i> ; (1991) (pp. 6)
	CS	SADC/SPE Drilling Conference (IADC/SPE 14764); <i>Predicting Bottomhole Assembly Performance</i> ; J. Williamson, A. Lubinski; Feb. 10-12, 1986; (pp. 337-342)
	CT	Baker Hughes INTEQ; Technical Data Sheet; <i>NaviGator™ (6-3/4")</i> ; (1994); (pp. 2)
	CU	Schlumberger/Anadrill; <i>An Underground revolution, Integrated Drilling Evaluation and Logging</i> ; (1995); (pp. 12)
	CV	Schlumberger/Anadrill; <i>IDEAL Wellsite Information System</i> ; (pp. 14)
	CW	Baker Hughes INTEQ; Technical Services Evaluation Product Line; <i>The Navigator Sales Orientation Manual</i> ; F. Hearn, et al; (pp. 1-16);
7-	CX	Baker Hughes INTEQ; <i>NaviGator™ Reservoir Navigation Service</i> ; (1996); (pp. 4);

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>n</i>	CY	✓	R. L. Gilstrap Co.; <i>The Wellhead CASINJAC™ for extra pipe pulling power</i> ; (pp. 7); Undated
	CZ	✓	The Natural Selection Research Group; <i>Inchworm Mobility—Stable, Reliable and Inexpensive</i> ; A. Ferworm, D. Stacey; (pp. 1-4); Undated
	DA	✓	CSIRO-UTS Electrical Machines; <i>Oil Well Tractor</i> ; (pp. 1); undated
	DB	✓	Scandinavian Oil-Gas Magazine; <i>Well Tractor for use in Deviated and Horizontal Wells</i> ; F. Schüssler; (pp. 1-3) Undated
	DC	✓	Shell U.K. Exploration and Production; <i>The Challenge of Drilling in the New Millenium</i> ; NeuRobot; (2 p.); (at least as early as 1996);
	DD	✓	D. Biglin, M. Wassell; APS Technology Self Propelled Drill String; <i>A Self Propelled Drilling System for Hard-Rock, Horizontal and Coiled Tube Drilling</i> ; (6 pages) May 5, 1998;
<i>n</i>	DE		European Patent Office Search Report for Appln. No. 98308760.2 dated January 21, 2002; (7 p.) *

EXAMINER

J. Lee

DATE CONSIDERED

4/18/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

* Not Previously Cited